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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/835,523	35,523 04/17/2001		Yong-Qian Wu	23754X	5679
29728	7590	05/11/2004		EXAMINER	
		MACEUTICALS C	TRUONG, TAMTHOM NGO		
FOLEY & 3000 K ST		-	ART UNIT	PAPER NUMBER	
	,	20007-5143	1624		

DATE MAILED: 05/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•						
	Application No.	Applicant(s)				
	09/835,523	WU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tamthom N. Truong	1624				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep within the statutory minimum of thirty will apply and will expire SIX (6) MONTI cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 De	ecember 2003					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-40 and 48-51 is/are pending in the a 4a) Of the above claim(s) 5,6,11-40 and 49-51 is 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4, 7-10, and 48 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	is/are withdrawn from cons	ideration.				
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex-		•				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Appitity documents have been re (PCT Rule 17.2(a)).	plication No eceived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		Mail Date ormal Patent Application (PTO-152)				

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DETAILED ACTION

Applicant's election with traverse of group I in the response of 12-17-03 is acknowledged. The traverse is on the ground that there is no burden of searching based on the evidence and explanation given. The traversal is not found persuasive for the following reasons:

- There are four different formulae. Each formula differs from each other by the groups attached to the ring nitrogen.
- Each formula has a core ring that varies from 5-member to 6-member to 7-member. Thus, for each formula, at least three different searches (one for each ring size) are needed. Therefore, for four formulae, at least twelve different searches are needed.
- Furthermore, the inventions of groups 5, 10, 15, and 20 require the additional search for the neurotrophic factor.
- Additionally, restrictions are discretionary, and there is no per se rule to prevent restriction in an office action after the first office action.

Because these inventions are distinct for the reasons given above and the search required for Group 1 is not required for Groups 2-20, restriction for examination purposes as indicated is proper. The restriction is made FINAL.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 1. Claims 3, 7-10, and 48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
 - a. Claim 3 lacks antecedent basis because it recites species that do not belong to the genus of formula I in claim 1. They are species of substituted *pyrazolidinecarboxylate* or *perhydropyridazinecarboxyalte*, in which the ring N is substituted with -C(=O)-O-, and not $-C(=O)-C(=O)-R_2$ as presented in formula (I) of claim 1.
 - b. Claim 7 recites the term "affecting". The metes and bounds of said term cannot be determined because it is not clear if "affecting" means 'increasing' or 'decreasing' or 'normanlizing' a neuronal activity. This ambiguity renders claim 7 indefinite.
 - c. Claims 8-10 are rejected as being dependent on claim 7.
 - d. Claim 48 is rejected because it is not what formulation is intended (powder? tablet? syrup? Or suspension?). Also, it is not clear what proportions are needed.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 3. Claims 1-4, 7-10, and 48 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,417,189 B1. Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons:
 - a. The compounds of claim 2 in US'189 read on the subgenus of formula I of the instant claims 1, 4, and 7 when it has the following substituents:
 - i. n equals 2 (i.e., the core ring is a 6-membered ring of perhydropyridazine);
 - ii. X is O;
 - iii. R_1 is $-COR_3$; R_3 is a substituted alkyl group;
 - iv. R_2 is an alkyl group;
 - b. Note, the first two compounds, and the last compounds of claim 2 in US'189 are also recited in the instant claim 3.
 - c. The formula I of US'189 differs from the instant formula I by not reciting a 5-membered ring (i.e., n = 1, or *pyrazolidine*), and a 7-membered ring (i.e., n = 2, or 1,2-diazepane).

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d. However, with regard to compounds of 6-membered ring (i.e., perhydropyridazine), it would have been obvious to one skilled in the art because the disclosed species fall within the subgenus of the instant formula I.

4. For the analysis set forth above, the pharmaceutical composition claim 3 in US'189 renders obvious the instant pharmaceutical composition claim 4 when n equals 2. Likewise, the method claims 4-7 render obvious the instant method claims 7-10. Although claim 7 recites "affecting", it would have been obvious to one skilled in the art that "affecting" would result in "treating". Since the instant pharmaceutical composition claim 4 is obvious, claim 48 (drawn to a method of making a pharmaceutical composition) is also obvious.

Claim Objections

- 5. Claims 1 and 4 are objected to because of the following informalities: Punctuation is required between the alternative hetero and carbocyclic rings. Appropriate correction is required.
- 6. Claim 2 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 1. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

In the instant case, the intended use of "non-immunosuppressive" in claim 2 does not result in a tangible structural difference between the product of the independent claim (i.e., claim 1), and the product of the dependent claim (i.e., claim 2). In the absence of such a structural difference, claim 2 is considered as a substantial duplicate of claim 1. The recitation of "nonimmunosuppressive" is, therefore, not afforded critical weight, and fails to further limit the product claim 2.

Non-elected claims

7. Claims 5, 6, 11-40, and 49-51 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected with traverse, there being no allowable generic or linking claim. Applicant is suggested to cancel non-elected subject matter (i.e., all the ring structures represented by R_1), and the non-elected claims 5, 6, 11-40, and 49-51.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 571-272-0676. The examiner can normally be reached on M-F (\sim 10 am \sim 6:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached at 571-272-0674. If you are unable to reach Dr. Shah within a 24 hour period, please contact James O. Wilson, Acting SPE of 1624, at 571-272-0661.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

T. Truong

April 26, 2004

Mon

JAMES O. WILSON SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 1600